

WHAT IS CLAIMED IS:

1. A device for detecting sulfuryl fluoride, in which the gas specimen to be examined is subjected to pyrolysis, with ensuing detection of a pyrolysis product, wherein for the pyrolysis, a chemical layer (5) of pyrophoric iron is provided, and as an indication system for the pyrolysis product, a test tube (2) for hydrogen fluoride is present.

2. The device of claim 1, wherein the chemical layer (5) additionally contains iron or aluminum powder.

3. A method for detecting sulfuryl fluoride, in which the gas specimen to be examined is subjected to pyrolysis, with ensuing detection of a pyrolysis product, wherein:

the pyrolysis is performed with a chemical layer (5) of pyrophoric iron above 400° Celsius, and

the hydrogen fluoride concentration of the pyrolysis product is detected, using a colorimetric test tube (2).

4. The method of claim 3, wherein iron or aluminum powder is added to the chemical layer (5).

5. The use of a preliminary tube (1) with pyrophoric iron for the pyrolysis of a gas specimen to be examined, in combination with a test tube (2) for detecting hydrogen fluoride as a pyrolysis product, for determining the proportion of sulfuryl fluoride in a gas specimen.